

0570  
0308

#2



ENTERED

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/076,934

DATE: 03/04/2002

TIME: 14:24:23

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03042002\J076934.raw

```

4 <110> APPLICANT: O'Hara Jr., Richard
5      Nagelin, Ann Marie
7 <120> TITLE OF INVENTION: AGENTS THAT SPECIFICALLY BLOCK
8      CD28-MEDIATED SIGNALING AND USES THEREFOR
11 <130> FILE REFERENCE: GNN-028
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/076,934
C--> 13 <141> CURRENT FILING DATE: 2002-02-19
13 <150> PRIOR APPLICATION NUMBER: 60/269,756
14 <151> PRIOR FILING DATE: 2001-02-16
16 <160> NUMBER OF SEQ ID NOS: 2
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 3803
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
26 taaagtcatc aaaacaacgt tatatcctgt gtgaaatgct gcagtcagga tgccttggtg 60
27 ttgagtgcct tgatcatgtg ccctaagggg atgggtggcg tgggtggggc cgtggatgac 120
28 ggagactctc aggccttggc aggtgcgtct ttcagttccc ctacacttc gggttcctcg 180
29 gggaggagg gctggaaccc tagcccatcg tcaggacaaa gatgctcagg ctgctcttg 240
30 ctctcaactt attcccttca attcaagtaa caggaaacaa gattttggtg aagcagtcgc 300
31 ccatgcttgt agcgtacgac aatgcggtca accttagctg caagtattcc tacaatctct 360
32 tctcaaggga gttccgggca tcccttcaca aaggactgga tagtgctgtg gaagtctgtg 420
33 ttgtatatgg gaattactcc cagcagcttc aggtttactc aaaaacgggg ttcaactgtg 480
34 atgggaaatt gggcaatgaa tcagtgcacat tctacctcca gaatttgat gttaaccaa 540
35 cagatattta ctctgcaaa attgaagtta tgtatcctcc tcttaccta gacaatgaga 600
36 agagcaatgg aaccattatc catgtgaaag ggaaacacct ttgtccaagt cccctatttc 660
37 ccggaccttc taagcccttt tgggtgctgg tgggtggtgg tggagtctg gcttgctata 720
38 gcttgctagt aacagtggcc ttattattt tctgggtgag gagtaagagg agcaggctcc 780
39 tgcacagtga ctacatgaac atgactcccc gccgcccccg gccacccgc aagcattacc 840
40 agccctatgc cccaccacgc gacttcgcag cctatcgctc ctgacacgga cgcctatcca 900
41 gaagccagcc ggctggcagc ccccatctgc tcaatatcac tgctctggat aggaaatgac 960
42 cgccatctcc agccggccac ctacggcccc tgttgggcca ccaatgocaa tttttctcga 1020
43 gtgactagac caaatatcaa gatcattttg agactctgaa atgaagtaaa agagatttcc 1080
44 tgtgacaggc caagtcttac agtgccatgg cccacattcc aacttaccat gtacttagtg 1140
45 acttgactga gaagttaggg tagaaaacaa aaagggagtg gattctggga gcctcttccc 1200
46 tttctcactc acctgcacat ctcatgcaag caaagtgtgg tatccacaga cattttagtt 1260
47 gcagaagaaa ggctaggaaa tcattccttt tgggttaaat ggtgtttaat cttttggtta 1320
48 gtgggttaaa cggggtaagt tagagtaggg ggagggatag gaagacatat ttaaaaacca 1380
49 ttaaaacact gtctccact catgaaatga gccacgtagt tctattttaa tgctgttttc 1440
50 ctttagttta gaaatacata gacattgtct tttatgaatt ctgacatat ttagtcattt 1500
51 tgaccaaata agggatttgg tcaaatgagg gattccctca aagcaatata aggtaaacca 1560
52 agttgctttc ctactccct gtcatgagac ttcagtgtta atgttcacaa tatactttcg 1620

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/076,934

DATE: 03/04/2002

TIME: 14:24:23

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03042002\J076934.raw

```

53 aaagaataaaa atagttctcc tacatgaaga aagaatatgt caggaaataa ggtcacttta 1680
54 tgtcaaaaatt atttgagtag tatgggacct ggcgcagtgg ctcatgcttg taatcccagc 1740
55 acttttgggag gccgaggttg gcagatcact tgagatcagg accagcctgg tcaagatggg 1800
56 gaaactccgt ctgtactaaa aatacaaaat ttagcttggc ctggtggcag gcacctgtaa 1860
57 tcccagctgc ccaggaggct gaggcagtag aatcgcttga acctggcagg cggaggttgc 1920
58 agtgagccga gatagtgcc aagctctcca gcctgggcga cagagtgaaga ctccatctca 1980
59 aacaacaaca acaacaacaa caacaacaac aaaccacaaa attatttgag tactgtgaag 2040
60 gattatttgt ctaacagttc attccaatca gaccaggtag gagctttcct gtttcatatg 2100
61 tttcaggggt gcacagtttg tctctttaat gtctgtgttg agatccaaag tgggttgttg 2160
62 aaagagcgtc cataggagaa gtgagaatac tgtgaaaagg gatgttagca ttcattagag 2220
63 tatgaggatg agtcccaaga aggttctttg gaaggaggac gaatagaatg gagtaatgaa 2280
64 attcttgcca tgtgctgagg agatagccag cattaggtga caatcttcca gaagtgggta 2340
65 ggcagaaggt gccttggtga gagctccttt acagggactt tatgtggttt agggctcaga 2400
66 gctccaaaac tctgggctca gctgctcctg taccttggag gtccattcac atgggaaagt 2460
67 attttggaaat gtgtcttttg aagagagcat cagagttctt aagggactgg gtaaggcctg 2520
68 accctgaaat gaccatggat attttctcat ctacagtttg agtcaactag aatatgcctg 2580
69 gggaccttga agaagtcctt tcagtggccc tcaccatttg ttcagtcttc agttaattca 2640
70 ggtgttgaag gagcttaggt tttagaggca cgtagacttg gttcaagtct cgttagtagt 2700
71 tgaatagcct caggcaagtc actgccacc taagatgatg gttcttcaac tataaatgga 2760
72 gataatggtt acaaatgtct ctctctatag tataatctcc ataaggcat ggcccaagtc 2820
73 tgtctttgac tctgctatc cctgacgttt agtagcatgc ccgacataca atggttagta 2880
74 ttggtattat tgccatatag ataaattatg tataaaaatt aaactgggca atagcctaag 2940
75 aaggggggaa tattgtaaca caaatttaaa cccaactacg agggatgagg tgctataata 3000
76 tgaggacctt ttaacttcca tcattttcct gtttcttgaa atagtttatc ttgtaatgaa 3060
77 atataaggca cctcccactt ttatgtatag aaagaggtct ttaattttt ttttaattgt 3120
78 agaaggaagg gaggagttag aatcttgaga ttccatatcg aaaatactgt actttgggtg 3180
79 atttttaagt ggccttccat tccatggatt taatcagtc caagaagatc aaactcagca 3240
80 gtacttgggt gctgaagaac tgttgattt accctggcac gtgtgccact tgcccagctt 3300
81 cttgggcaca cagagttctt caatccaagt tatcagattg tatttgaaaa tgacagagct 3360
82 ggagagtttt ttgaaatggc agtggcaaat aaataaatac ttttttttaa atggaaagac 3420
83 ttgatctatg gtaataaatg attttgttt ctgactggaa aaataggcct actaaagatg 3480
84 aatcacactt gagatgttct ttactcactc tgcacagaaa caaagaagaa atgttatata 3540
85 gggaaagtccg ttttactat tagtatgaac caagaaatgg ttcaaaaaca gtggtaggag 3600
86 caatgctttc atagtttcag atatggtagt tatgaagaaa acaatgtcat ttgctgctat 3660
87 tattgtaaga gtcttataat taatggtagt cctataattt ttgattgtga gctcacctat 3720
88 ttgggttaag catgccaat taaagagacc aagtgtatgt acattatgtt ctacatatct 3780
89 agtgataaaa ttactaaact act 3803

```

91 <210> SEQ ID NO: 2

92 <211> LENGTH: 219

93 <212> TYPE: PRT

94 <213> ORGANISM: Homo sapiens

96 <400> SEQUENCE: 2

```

97 Met Leu Arg Leu Leu Ala Leu Asn Leu Phe Pro Ser Ile Gln Val
98 1 5 10 15
99 Thr Gly Asn Lys Ile Leu Val Lys Gln Ser Pro Met Leu Val Ala Tyr
100 20 25 30
101 Asp Asn Ala Val Asn Leu Ser Cys Lys Tyr Ser Tyr Asn Leu Phe Ser
102 35 40 45
103 Arg Glu Phe Arg Ala Ser Leu His Lys Gly Leu Asp Ser Ala Val Glu

```

## RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/10/076,934

TIME: 14:24:23

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03042002\J076934.raw

```

104      50      55      60
105 Val Cys Val Val Tyr Gly Asn Tyr Ser Gln Gln Leu Gln Val Tyr Ser
106 65      70      75      80
107 Lys Thr Gly Phe Asn Cys Asp Gly Lys Leu Gly Asn Glu Ser Val Thr
108      85      90      95
109 Phe Tyr Leu Gln Asn Leu Tyr Val Asn Gln Thr Asp Ile Tyr Phe Cys
110      100      105      110
111 Lys Ile Glu Val Met Tyr Pro Pro Tyr Leu Asp Asn Glu Lys Ser
112      115      120      125
113 Asn Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro
114      130      135      140
115 Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp Val Leu Val Val Val Gly
116 145      150      155      160
117 Gly Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile
118      165      170      175
119 Phe Trp Val Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met
120      180      185      190
121 Asn Met Thr Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro
122      195      200      205
123 Tyr Ala Pro Pro Arg Asp Phe Ala Tyr Arg Ser
124      210      215

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/076,934

DATE: 03/04/2002

TIME: 14:24:24

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03042002\J076934.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date